Performance Data Sheet

AE2410Z-AA1A

General Information

Model	AE2410Z-AA1A	**Refrigerant**	R-404A
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	20°C (68°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
-40	Btu/h	217	294	330	333	310	270	220
	Watts	161	161	161	159	156	150	141
	Amps	3.05	3.07	3.08	3.09	3.09	3.08	3.05
	Lb/h	3.13	4.72	5.63	5.95	5.80	5.25	4.43
-35	Btu/h	351	404	417	400	358	302	239
	Watts	172	174	174	174	172	167	160
	Amps	3.10	3.12	3.13	3.14	3.14	3.13	3.11
	Lb/h	5.19	6.49	7.14	7.25	6.92	6.23	5.29
-30	Btu/h	505	533	525	487	427	355	278
	Watts	183	186	188	189	188	185	179
	Amps	3.16	3.17	3.19	3.20	3.20	3.19	3.17
	Lb/h	7.54	8.57	8.99	8.90	8.39	7.57	6.54
-25	Btu/h	676	681	650	592	515	427	336
	Watts	194	198	201	204	204	202	198
	Amps	3.21	3.23	3.25	3.26	3.27	3.26	3.24
	Lb/h	10.2	10.9	11.1	10.9	10.2	9.27	8.16
-20	Btu/h	864	844	791	714	619	515	411
	Watts	205	210	215	218	220	220	217
	Amps	3.27	3.30	3.32	3.33	3.34	3.34	3.33
	Lb/h	13.0	13.6	13.6	13.1	12.3	11.3	10.1
-15	Btu/h	1070	1020	947	850	738	618	501
	Watts	216	223	228	233	236	237	236
	Amps	3.33	3.36	3.39	3.41	3.43	3.43	3.42
	Lb/h	16.1	16.5	16.3	15.7	14.7	13.6	12.4
-10	Btu/h	1280	1210	1120	999	869	735	603
	Watts	228	235	242	248	252	255	255
	Amps	3.40	3.43	3.46	3.49	3.52	3.53	3.53
	Lb/h	19.5	19.5	19.2	18.4	17.4	16.2	15.0
-5	Btu/h	1500	1410	1290	1160	1010	861	717
	Watts	239	247	255	263	269	273	274
	Amps	3.46	3.50	3.54	3.58	3.61	3.63	3.64
	Lb/h	22.9	22.8	22.3	21.5	20.4	19.1	17.9

0	Btu/h	1730	1620	1480	1330	1160	997	840
	Watts	249	259	269	277	285	290	293
	Amps	3.52	3.57	3.62	3.67	3.71	3.74	3.76
	Lb/h	26.6	26.3	25.6	24.7	23.5	22.2	21.0
5	Btu/h	1970	1830	1670	1500	1320	1140	971
	Watts	260	271	282	292	301	308	312
	Amps	3.59	3.65	3.71	3.76	3.81	3.85	3.88
	Lb/h	30.4	29.9	29.1	28.1	26.9	25.6	24.3
10	Btu/h	2210	2050	1870	1680	1480	1290	1110
	Watts	271	283	295	307	317	325	332
	Amps	3.65	3.72	3.79	3.86	3.92	3.97	4.01
	Lb/h	34.3	33.7	32.8	31.6	30.4	29.1	27.9

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	7.953903E+02	2.211044E+02	3.462527E+00	2.766266E+00
C2	9.937357E+01	7.296594E-01	-9.145145E-04	1.271323E+00
C3	4.196342E+01	-8.175110E-01	-6.723823E-03	7.047559E-01
C4	9.534011E-02	-4.234198E-03	-2.181452E-04	1.999427E-04
C5	-8.228770E-01	1.251811E-02	1.527159E-04	-9.43582E-03
C6	-4.850885E-01	2.147197E-02	1.342117E-04	-6.396413E-03
C7	-2.599333E-03	-1.646637E-05	-9.160681E-07	-3.046315E-05
C8	3.429969E-04	2.949094E-05	2.529061E-06	3.142975E-05
C9	2.103184E-03	6.876996E-05	2.040112E-07	3.550845E-05
C10	1.340333E-03	-8.535069E-05	-5.082063E-07	1.636439E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature